

# BRIDGES DAY 3

## MAKING PREDICTIONS

- 1.** What material will you be using for this experiment (paper, cardboard, paper towel, or other)?
  
  
  
  
  
  
  
  
  
  
- 2.** Describe the material.
  
  
  
  
  
  
  
  
  
  
- 3.** Predict what will happen when the toy car (or other object) is placed on the bridge. Write another prediction about what will happen when it “rains” on the bridge.
  
  
  
  
  
  
  
  
  
  
- 4.** Draw what you predict will happen when the toy car is placed on the bridge.
  
  
  
  
  
  
  
  
  
  
- 5.** Draw what you predict will happen when a small cup of water is poured on the bridge. Will the bridge leak or absorb the “rain”?

# BRIDGES DAY 3

## MAKING PREDICTIONS

**6.** Conduct the experiment. First, place a toy car (or other object) on the bridge. Now, pour a small cup of water to the bridge.

**7.** Record your observations.

Weight on Bridge	Weather on Bridge
Was your prediction about the weight on the bridge correct?	Was your prediction about the weather on the bridge correct?

**8.** Could you change the physical property of the material to make it hold more weight or withstand the “rain”? Explain.

**9.** Manipulate the material (fold, cut, etc.) to see if you can make the bridge hold more weight. Describe how you changed the physical properties of the bridge material and record your observations.

**10.** Repeat steps 1-8 two more times for each additional bridge material.